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New England Biolabs Certificate of Analysis

Product Name: EcoRV-HF®
Catalog Number: R3195T
Concentration: 100,000 U/ml

Unit Definition: One unit is defined as the amount of enzyme required to digest 1 µg

of Lambda DNA in 1 hour at 37°C in a total reaction volume of 50 μl.

Packaging Lot Number: 10090268
Expiration Date: 05/2022
Storage Temperature: -20°C

Storage Conditions: 200 mM NaCl, 10 mM Tris-HCl (pH 7.4), 1 mM DTT, 0.1 mM EDTA, 50%

Glycerol, 200 μg/ml BSA

Specification Version: PS-R3195T/M v1.0

EcoRV-HF® Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R3195TVIAL	EcoRV-HF®	10074031	Pass	
B7204SVIAL	CutSmart® Buffer	10085424	Pass	
B7024AVIAL	Gel Loading Dye, Purple (6X)	10084971	Pass	

Assay Name/Specification	Lot # 10090268
Protein Purity Assay (SDS-PAGE) EcoRV-HF™ is >95% pure as determined by SDS PAGE analysis using Coomassie Blue	Pass
detection.	
Blue-White Screening (Terminal Integrity)	Pass
A sample of LITMUS28i vector linearized with a 10-fold excess of EcoRV-HF™, religated and transformed into an E. coli strain expressing the LacZ beta fragment	
gene results in <1% white colonies.	
Endonuclease Activity (Nicking)	Pass
A 50 μI reaction in CutSmart™ Buffer containing 1 μg of supercoiled PhiX174 DNA and a minimum of 20 Units of EcoRV-HF™ incubated for 4 hours at 37°C results in <20%	
conversion to the nicked form as determined by agarose gel electrophoresis.	
Exonuclease Activity (Radioactivity Release)	Pass
A 50 µl reaction in CutSmart™ Buffer containing 1 µg of a mixture of single and double-stranded [³H] E. coli DNA and a minimum of 100 units of EcoRV-HF™ incubated	
for 4 hours at 37°C releases <0.1% of the total radioactivity.	



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One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit www.neb.com/trademarks for additional information.

Penghua Zhang **Production Scientist**

05 Nov 2020

Michael Tonello

Packaging Quality Control Inspector

05 Nov 2020



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